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STRUCTURE FILE UPDATES: 2 DEC 2008 HIGHEST RN 1078799-92-4
 DICTIONARY FILE UPDATES: 2 DEC 2008 HIGHEST RN 1078799-92-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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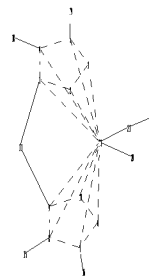
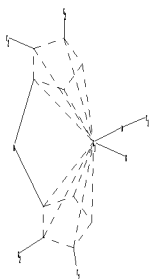
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 predicted properties as well as tags indicating availability of
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 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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chain nodes :
 15 16 18 19 20 21 23
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 13
 chain bonds :
 4-18 5-19 7-16 8-15 13-20 13-21 21-23
 ring bonds :

1-2 1-5 1-13 2-3 2-13 3-4 3-11 3-13 4-5 4-13 5-13 6-7 6-10 6-13 7-8
7-13 8-9 8-13 9-10 9-11 9-13 10-13
exact/norm bonds :
1-2 1-5 1-13 2-3 2-13 3-4 3-11 3-13 4-5 4-13 4-18 5-13 5-19 6-7 6-10
6-13 7-8 7-13 7-16 8-9 8-13 8-15 9-10 9-11 9-13 10-13 13-20 13-21
21-23

G1:Cr,Hf,Mo,Nb,Ta,Ti,V,W,Zr

G2:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

G3:Cb,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 13:Atom 15:CLASS 16:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
23:CLASS

L1 STRUCTURE UPLOADED

=> d his

(FILE 'HOME' ENTERED AT 12:51:26 ON 04 DEC 2008)

FILE 'REGISTRY' ENTERED AT 12:51:37 ON 04 DEC 2008

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

Structure diagram not available for display

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:52:10 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2282 TO ITERATE

87.6% PROCESSED 2000 ITERATIONS 0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 42775 TO 48505

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 12:52:17 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 44637 TO ITERATE

100.0% PROCESSED 44637 ITERATIONS

22 ANSWERS

SEARCH TIME: 00.00.01

L3 22 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

178.57

FILE 'CAPLUS' ENTERED AT 12:52:23 ON 04 DEC 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 4 Dec 2008 VOL 149 ISS 23

FILE LAST UPDATED: 3 Dec 2008 (20081203/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l3

L4 11 L3

=> d 1-11 bib abs

L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:570907 CAPLUS

DN 143:97803

TI Meso-selective synthesis of ansa-metallocenes as olefin polymerization catalysts

IN Chevalier, Reynald; Garcia, Valerie; Mueller, Patrik; Sidot, Christian; Tellier, Christian; Delancray, Ludovic

PA Basell Polyolefine G.m.b.H., Germany

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

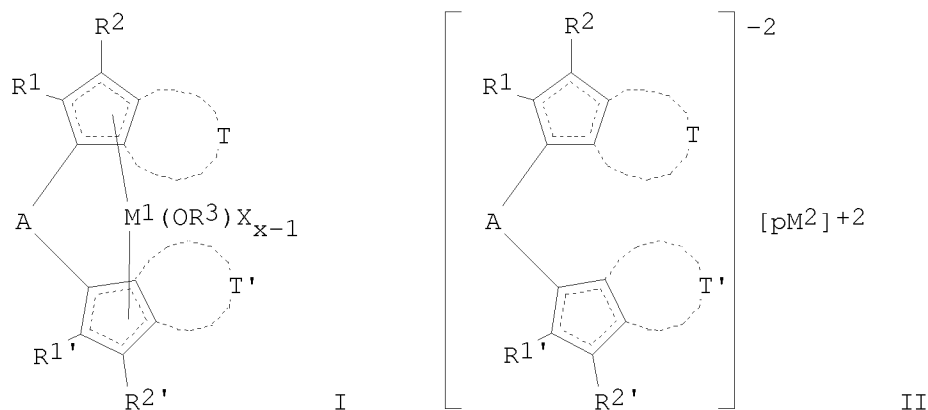
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005058929	A1	20050630	WO 2004-EP14247	20041215
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

DE 10360060 A1 20050721 DE 2003-10360060 20031219
 EP 1694690 A1 20060830 EP 2004-803869 20041215
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
 CN 1960998 A 20070509 CN 2004-80037067 20041215
 JP 2007514684 T 20070607 JP 2006-544318 20041215
 US 20070155920 A1 20070705 US 2006-583574 20060619
 PRAI DE 2003-10360060 A 20031219
 US 2004-542579P P 20040205
 WO 2004-EP14247 W 20041215
 OS MARPAT 143:97803
 GI



AB A process for the meso-selective preparation of ansa-metallocene complexes of the formula I comprises reacting a ligand starting compound of the formula II with a transition metal compound of the formula (LB)yM1(OR3)Xx+1 (R1, R1', R2 and R2' = H, C1-40 organic radical; R3 is a bulky organic radical having

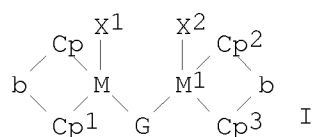
≥3 carbon atoms and bound to the oxygen atom via a nonarom. carbon or Si atom and may be substituted by halogen atoms or further organic radicals having 1-20 carbon atoms and may also contain heteroatoms selected from the group consisting of Si, N, P, O and S; T and T' = a divalent organic group having 1-40 carbon atoms and together with the cyclopentadienyl ring forming at least one further saturated or unsatd., substituted or unsubstituted ring system having a ring size of 5-12 atoms; A = a bridge consisting of a divalent atom or a divalent group; M1 is a group 3-6 metal or lanthanide; X = an organic or inorg. radical replaceable by a cyclopentadienyl anion; x = 1-4; M2 = an alkali metal, an alkaline earth metal or a magnesium monohalide fragment; p = 1 or 2 and y = 0-6).

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:297646 CAPLUS
 DN 138:321724
 TI bridged bimetallic or trimetallic metallocene catalysts for olefin polymerization
 IN Lyu, Yi-Yeol; Chang, Seok; Yoon, Keun-byoung; Jung, Won-Cheol
 PA Samsung General Chemicals Co., Ltd., S. Korea

SO Eur. Pat. Appl., 20 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1302483	A2	20030416	EP 2002-28086	19990908
	R: CH, DE, FR, GB, IT, LI, SE				
	KR 2000025587	A	20000506	KR 1998-42729	19981013
	EP 994132	A1	20000419	EP 1999-117715	19990908
	EP 994132	B1	20040804		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	KR 1998-42729	A	19981013		
	EP 1999-117715	A3	19990908		
OS	MARPAT 138:321724				
GI					



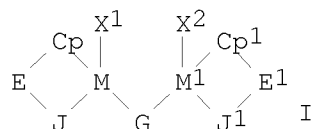
AB A metallocene catalyst for olefin polymerization having the formula I was prepared

by reacting a metallocene precursor with a compound having at least two functional groups, where M and M1 are transition metals from Group IV-VI elements, Cp, Cp1, Cp2 and Cp3 are cyclopentadienyl-typed ligands which form η^5 -bond to M or M1, b is an alkylene group of C1-4, dialkylsilyl, dialkylgermanium, alkylphosphine or alkylamine, G is the linking groups and represented as -YRY1-, where Y and Y1 = O, NR1 or PR2, and R, R1, R2 = a linear or branched divalent alkyl, cycloalkyl, aryl or arylalkyl groups having ≤ 20 carbons. The metallocene catalysts are activated with a co-catalyst, such as MAO or a non-coordinated lewis acid as B(C6F5)3, to produce polyolefins having enhanced phys. properties in comparison with the conventional metallocenes or Ziegler-Natta catalysts.

L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:297645 CAPLUS
 DN 138:321723
 TI Bridged multimetallic metallocene catalysts for olefin polymerization
 IN Lyu, Yi-Yeol; Chang, Seok; Yoon, Keun-Byoung; Jung, Won-Cheol
 PA Samsung General Chemicals Co., Ltd., S. Korea
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1302482	A2	20030416	EP 2002-28085	19990908
	R: CH, DE, FR, GB, IT, LI, SE				
	KR 2000025587	A	20000506	KR 1998-42729	19981013
	EP 994132	A1	20000419	EP 1999-117715	19990908
	EP 994132	B1	20040804		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRAI KR 1998-42729 A 19981013
 EP 1999-117715 A3 19990908
 OS MARPAT 138:321723
 GI



AB A metallocene catalyst for olefin polymerization having the formula I was prepared

by reacting a metallocene precursor with a compound having at least two functional groups, where M and M1 are transition metals from Group IV-VI elements, Cp and Cp1 are cyclopentadienyl-typed ligands which form η^5 -bond to M or M1, E and E1 are O, B, C1-4 alkyl, dialkylsilyl and dialkylgermanium, J and J1 are S, alkylphosphine or alkylamine, X and X1 are H, OH, halogen, and alkyl, cycloalkyl, aryl or arylalkyl groups having ≤ 20 carbons, G is a linking group and represented as -YRY1-, where Y and Y1 = O, NR1 or PR2, and R, R1, R2 = a linear or branched divalent alkyl, cycloalkyl, aryl or arylalkyl groups having ≤ 20 carbons. The metallocene catalysts are activated with a co-catalyst, such as MAO or a non-coordinated lewis acid as B(C6F5)3, to produce polyolefins having enhanced phys. properties in comparison with the conventional metallocenes or Ziegler-Natta catalysts.

L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2003:297644 CAPLUS

DN 138:304699

TI Bridged bimetallic or trimetallic metallocene catalysts for olefin polymerization

IN Lyu, Yi-Yeol; Chang, Seok; Yoon, Keun-Byoung; Jung, Won-Cheol

PA Samsung General Chemicals Co., Ltd., S. Korea

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1302481	A2	20030416	EP 2002-28084	19990908
	R: CH, DE, FR, GB, IT, LI, SE				
	KR 2000025587	A	20000506	KR 1998-42729	19981013
	EP 994132	A1	20000419	EP 1999-117715	19990908
	EP 994132	B1	20040804		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRAI KR 1998-42729 A 19981013

EP 1999-117715 A3 19990908

OS MARPAT 138:304699

AB A metallocene catalyst for olefin polymerization having the formula $\text{CpCp1M}(\mu\text{-G})(\mu\text{-G1})\text{M1Cp2Cp3}$ was prepared by reacting a metallocene precursor with a compound having at least two functional groups, where M and M1 are transition metals from Group IV-VI elements, Cp, Cp1, Cp2 and Cp3 are cyclopentadienyl-typed ligands which form η^5 -bond to M or M1, G and G1 are the linking groups and represented as -YRY1-, where Y and Y1 = O, NR1 or PR2, and R, R1, R2 = a linear or branched divalent alkyl, cycloalkyl, aryl or arylalkyl groups having ≤ 20 carbons. The

metallocene catalysts are activated with a co-catalyst, such as MAO or a non-coordinated lewis acid as B(C6F5)3, to produce polyolefins having enhanced phys. properties in comparison with the conventional metallocenes or Ziegler-Natta catalysts.

L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:868966 CAPLUS
 DN 137:353518
 TI Polymerization process for producing propylene copolymers
 IN Lehmus, Petri; Hakala, Kimmo; Pitkaenen, Paeivi; Arnold, Manfred;
 Meinecke, Andreas; Stehling, Udo Manfred
 PA Borealis Technology Oy, Finland; Cockbain, Julian
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002090399	A1	20021114	WO 2002-GB2057	20020503
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1302486	A1	20030416	EP 2001-124046	20011009
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU	2002251369	A1	20021118	AU 2002-251369	20020503
EP	1401896	A1	20040331	EP 2002-720305	20020503
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR	2002009401	A	20040706	BR 2002-9401	20020503
CN	1537123	A	20041013	CN 2002-811857	20020503
CN	1289554	C	20061213		
CN	1636025	A	20050706	CN 2002-809285	20020503
CN	100351277	C	20071128		
WO	2003031486	A1	20030417	WO 2002-EP11092	20021002
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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AU	2002349323	A1	20030422	AU 2002-349323	20021002
BR	2002013211	A	20040831	BR 2002-13211	20021002
CN	1568334	A	20050119	CN 2002-819969	20021002
JP	2005504866	T	20050217	JP 2003-534468	20021002
US	20040158010	A1	20040812	US 2004-476646	20040406
US	7157534	B2	20070102		
IN	2004CN00730	A	20060113	IN 2004-CN730	20040407
US	20050009957	A1	20050113	US 2004-492276	20040830
US	7323525	B2	20080129		
US	20070129513	A1	20070607	US 2006-543117	20061005

US 7449534 B2 20081111
 PRAI GB 2001-11020 A 20010504
 EP 2001-124046 A 20011009
 WO 2002-GB2057 W 20020503
 WO 2002-EP11092 W 20021002
 US 2004-476646 A3 20040406

OS MARPAT 137:353518

AB The invention provides a process for the preparation of a propylene polymer in which propylene and a comonomer copolymerizable therewith and of greater mol. weight than propylene are polymerized in a single site catalyst catalyzed polymerization reaction,, characterized in that said polymerization reaction is effected

at least in part at a temperature of at least 70°.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:10491 CAPLUS

DN 136:69969

TI Method for the selective production of racemic metallocene complexes

IN Damrau, Robert; Mueller, Patrik; Royo, Eva; Brintzinger, Hans-Herbert

PA Basell Polyolefine G.m.b.H., Germany

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002000672	A1	20020103	WO 2001-EP7389	20010628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10030638	A1	20020110	DE 2000-10030638	20000629
EP 1294734	A1	20030326	EP 2001-965046	20010628
EP 1294734	B1	20040519		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004501928	T	20040122	JP 2002-505794	20010628
BR 2001012050	A	20040210	BR 2001-12050	20010628
AT 267205	T	20040615	AT 2001-965046	20010628
ES 2219557	T3	20041201	ES 2001-965046	20010628
CN 1267441	C	20060802	CN 2001-814563	20010628
IN 2002CN02157	A	20050225	IN 2002-CN2157	20021226
MX 2003PA00054	A	20040913	MX 2003-PA54	20030107
US 20040010157	A1	20040115	US 2003-312359	20030605
US 6992204	B2	20060131		
PRAI DE 2000-10030638	A	20000629		
WO 2001-EP7389	W	20010628		

OS CASREACT 136:69969; MARPAT 136:69969

AB The invention relates to a method for producing racemic metallocene complexes by reacting bridged or non-bridged transition metal complexes with cyclopentadienyl derivs. of alkaline or alkaline earth metals and optionally, subsequently substituting the phenolate ligands. Thus, reaction of Me2Si(2-Me-ind)2Li2 with Cl2(THF)2Zr(bip) (bip =

3,3'-5,5'-tetra-tert-Bu-1,1'-bi-2-phenolate) in PhMe/THF gave 22%
rac-Me2Si(2-Me-ind)2Zr(bip).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2000:368375 CAPLUS
DN 133:17638
TI Method for producing monoaryloxy-ansa-metallocenes
IN Bingel, Carsten; Brintzinger, Hans-herbert; Damrau, Hans-robert-hellmuth
PA Targor G.m.b.H., Germany
SO PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000031091	A1	20000602	WO 1999-EP8854	19991118
	W: BR, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19912576	A1	20000921	DE 1999-19912576	19990319
	BR 9915708	A	20010814	BR 1999-15708	19991118
	EP 1133504	A1	20010919	EP 1999-960984	19991118
	EP 1133504	B1	20030312		
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	JP 2002530416	T	20020917	JP 2000-583919	19991118
	ES 2192408	T3	20031001	ES 1999-960984	19991118
	EP 1361226	A2	20031112	EP 2003-15009	19991118
	EP 1361226	A3	20040102		
	R: CH, DE, ES, FR, GB, IT, LI, NL				
	EP 1396495	A1	20040310	EP 2003-26592	19991118
	EP 1396495	B1	20070117		
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	US 6620953	B1	20030916	US 2001-856041	20010517
PRAI	DE 1998-19854350	A	19981125		
	DE 1999-19912576	A	19990319		
	DE 1999-19900585	A	19990111		
	EP 1999-956012	A3	19991118		
	EP 1999-958064	A3	19991118		
	WO 1999-EP8854	W	19991118		

OS MARPAT 133:17638
AB Diindenylsilane zirconocene chloride phenolates were prepared as polymerization catalysts. Thus, treatment of lithiated dimethylbis(2-methyl-4,5-benzoindenyl)silane with 2,4-(Me3C)2C6H3OZrCl(THF)2 gave 44% pseudo-rac-dimethylsilanediylbis(2-methyl-4,5-benzoindenyl)zirconium monochloride mono(2,4-di-tert-butylphenolate) which was used as a catalyst in the polymerization of propene. Among the 6 other title compds. similarly prepared were 53% pseudo-rac-dimethylsilanediylbis(2-methylindenyl)zirconium monochloride mono(2,6-dimethylphenolate), and 47% pseudo-rac-dimethylsilanediylbis[2-methyl-4-(4-tert-butylphenyl)indenyl]zirconium monochloride mono(2,4-di-tert-butylphenolate).

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2000:368373 CAPLUS

DN 133:17637
 TI Metallocene monohalides
 IN Bingel, Carsten; Brintzinger, Hans-herbert; Damrau, Hans-robert-hellmuth;
 Muller, Patrik; Suhm, Jurgen
 PA Targor G.m.b.H., Germany
 SO PCT Int. Appl., 56 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000031090	A1	20000602	WO 1999-EP8851	19991118
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	BR 9906934	A	20001010	BR 1999-6934	19991118
	EP 1049705	A1	20001108	EP 1999-956012	19991118
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002530415	T	20020917	JP 2000-583918	19991118
	EP 1361226	A2	20031112	EP 2003-15009	19991118
	EP 1361226	A3	20040102		
	R: CH, DE, ES, FR, GB, IT, LI, NL				
	EP 1396495	A1	20040310	EP 2003-26592	19991118
	EP 1396495	B1	20070117		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	ES 2280674	T3	20070916	ES 2003-26592	19991118
	CN 100340568	C	20071003	CN 1999-802376	19991118
	ZA 2000003597	A	20010731	ZA 2000-3597	20000718
	US 7053160	B1	20060530	US 2000-701658	20001130
PRAI	DE 1998-19854350	A	19981125		
	DE 1999-19900585	A	19990111		
	EP 1999-956012	A3	19991118		
	EP 1999-958064	A3	19991118		
	WO 1999-EP8851	W	19991118		

OS MARPAT 133:17637

AB The invention relates to new metallocene monohalides, a method for producing same and their use in the polymerization of olefins. E.g., treatment of dimethylsilanediylbis(2-methyl-4,5-benzoindenyl)zirconium dichloride with 2,4-di-tert-butylphenol gave 83% dimethylsilanediylbis(2-methyl-4,5-benzoindenyl)zirconium chloride 2,4-di-tert-butylphenolate, which was purified in toluene and used as a catalyst in the polymerization of propene. Among the 5 other metallocenes similarly prepared were 53% dimethylsilanediylbis(2-methylindenyl)zirconium chloride 2,4-di-tert-butylphenolate and 63% dimethylsilanediylbis(2-methyl-4,5-benzoindenyl)zirconium chloride 2,4-di-tert-pentylphenolate.

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2000:368372 CAPLUS
 DN 133:17636
 TI Method for the purification of metallocenes
 IN Bingel, Carsten; Muller, Patrik; Brintzinger, Hans-herbert; Damrau,

Hans-robert-hellmuth
PA Targor G.m.b.H., Germany
SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000031089	A1	20000602	WO 1999-EP8849	19991118
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19900585	A1	20000713	DE 1999-19900585	19990111
	EP 1133503	A1	20010919	EP 1999-958064	19991118
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002530414	T	20020917	JP 2000-583917	19991118
	EP 1361226	A2	20031112	EP 2003-15009	19991118
	EP 1361226	A3	20040102		
	R: CH, DE, ES, FR, GB, IT, LI, NL				
	EP 1396495	A1	20040310	EP 2003-26592	19991118
	EP 1396495	B1	20070117		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	US 6900343	B1	20050531	US 2001-856695	19991118
PRAI	DE 1998-19854350	A	19981125		
	DE 1999-19900585	A	19990111		
	EP 1999-956012	A3	19991118		
	EP 1999-958064	A3	19991118		
	WO 1999-EP8849	W	19991118		

OS MARPAT 133:17636

AB The invention relates to a method for purifying metallocenes according to which a poorly soluble metallocene halide is transformed into a readily soluble and easily crystallizable metallocene by replacement of at least one halide ligand with another, neg. charged, ligand, after which the metallocene obtained in this way is purified by crystallization E.g., treatment

of dimethylsilanediylbis(2-methyl-4,5-benzoindenyl)zirconium dichloride with 2,4-di-tert-butylphenol gave 83% dimethylsilanediylbis(2-methyl-4,5-benzoindenyl)zirconium chloride 2,4-di-tert-butylphenolate, which was purified in toluene and used as a catalyst in the polymerization of propene. Among the 5 other metallocenes similarly prepared were 53% dimethylsilanediylbis(2-methylindenyl)zirconium chloride 2,4-di-tert-butylphenolate and 63% dimethylsilanediylbis(2-methyl-4,5-benzoindenyl)zirconium chloride 2,4-di-tert-pentylphenolate.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2000:259786 CAPLUS
DN 132:294137
TI Metallocene catalysts for olefin polymerization and polymerization method using them
IN Lyu, Yi-Yeol; Chang, Seok; Yoon, Keun-Byoung; Jung, Won-Cheol
PA Samsung General Chemicals Co., Ltd., S. Korea
SO Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 994132	A1	20000419	EP 1999-117715	19990908
	EP 994132	B1	20040804		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	KR 2000025587	A	20000506	KR 1998-42729	19981013
	US 6284701	B1	20010904	US 1999-294510	19990420
	EP 1302481	A2	20030416	EP 2002-28084	19990908
	R: CH, DE, FR, GB, IT, LI, SE				
	EP 1302482	A2	20030416	EP 2002-28085	19990908
	R: CH, DE, FR, GB, IT, LI, SE				
	EP 1302483	A2	20030416	EP 2002-28086	19990908
	R: CH, DE, FR, GB, IT, LI, SE				
	JP 2000128915	A	20000509	JP 1999-279338	19990930
	JP 3125253	B2	20010115		
PRAI	KR 1998-42729	A	19981013		
	EP 1999-117715	A3	19990908		
OS	MARPAT 132:294137				

AB The metallocene catalysts are prepared by reacting a metallocene compound with a compound having ≥ 2 functional groups. The metallocene compound is a transition metal compound, which is coordinated with a main ligand such as cyclopentadienyl group, and an ancillary ligand. The compound have functional groups selected from the group consisting of a hydroxy group, an alkyl or aryl magnesium halide, a thiol group, a primary or a secondary amine group, a primary or a secondary phosphorous group, etc. The metallocene catalysts are employed with a co-catalyst (e.g., an organometallic compound, or a mixture of non-coordinated Lewis acid and alkylaluminum) for olefin polymerization. Thus, reaction of 0.1 mmol bis(butylcyclopentadienyl)zirconium dichloride with 0.05 mmol bisphenol A gave a bimetallic compound, which was used as catalysts for polymerization of ethylene.

L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1997:207696 CAPLUS

DN 126:264146

OREF 126:51165a,51168a

TI Photochemical Isomerization of Me₂Si-Bridged Zirconocene Complexes. Application to Stereoselective Syntheses of ansa-Zirconocene Binaphtholate Stereoisomers

AU Schmidt, Katrin; Reinmuth, Annette; Rief, Ursula; Diebold, Josef; Brintzinger, Hans H.

CS Fakultät fuer Chemie, Universitaet Konstanz, Konstanz, D-78434, Germany

SO Organometallics (1997), 16(8), 1724-1728

CODEN: ORGND7; ISSN: 0276-7333

PB American Chemical Society

DT Journal

LA English

OS CASREACT 126:264146

AB Upon irradiation in toluene solution, meso-racemate mixts. of Me₂Si(2-Me-4-tert-Bu-C₅H₂)₂ZrCl₂ or Me₂Si(2-Me-4-phenyl-C₅H₂)₂ZrCl₂ react with 1 equiv of the dilithium salt of racemic binaphthol quant. to give the racemic binaphtholate complex. Analogous reactions with 1 equiv of the R(+) enantiomer of dilithium binaphtholate give a near-quant. yield of the enantiomerically pure ansa-zirconocene binaphtholate complex. The structures of the racemic binaphtholate complex, Me₂Si(2-Me-4-tert-Bu-C₅H₂)₂Zr(binaphtholate), and of a monodentate binaphtholate complex with a meso configured zirconocene moiety, Me₂Si(3-tert-Bu-C₅H₃)₂Zr(binaphtholate) chloride, were crystallog. determined

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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